IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A multilayer ultrathin film which comprises layers

consisting essentially of polymer layers and layers of lamina particles alternately assembled,

said lamina particles being obtained by exfoliating microcrystals of a layered titanium oxide,

a film thickness of each of the layers being controlled within a range of from sub-nm to nm.

Claim 2 (Original): The ultrathin film according to Claim 1, wherein the lamina

particles are titania nanosheets having a compositional formula of $Ti_{1-\delta}O_2$ (0 $\leq \delta \leq 0.5$).

Claim 3 (Cancelled).

Claim 4 (Original): The ultrathin film according to Claim 1, which absorbs ultraviolet

light having a wavelength of at most 300 nm with a high efficiency.

Claim 5 (Previously Presented): A method for producing the titania ultrathin film as

defined in Claim 1, which comprises repeatedly soaking a substrate alternately in a sol having

titania nanosheets suspended and in a cationic polymer solution so that the nanosheets and the

polymer are adsorbed on the substrate each in a thickness of from sub-nm to nm level to form

a multilayer having said components alternately accumulated.

Claim 6 (Currently Amended): The ultrathin film according to Claim 1, wherein the

film thickness of each of the layers is from 0.5 nm to 2 nm.

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Claim 7 (Currently Amended): The ultrathin film according to Claim 1, wherein the film thickness of each of the layers is 1 nm.

Claim 8 (Previously Presented): The ultrathin film according to Claim 2, wherein said titania nanosheets are derived from layered titanium oxide.

Claim 9 (Currently Amended): The method according to Claim 5, wherein a film thickness of each of the layers is from 0.5 nm to 2 nm.

Claim 10 (Currently Amended): The method according to Claim 9, wherein a film thickness of each of the layers is 1 nm.

Claim 11 (Previously Presented): The method according to Claim 5, wherein the concentration of the titania is at most 5 wt.%

Claim 12 (Cancelled).

Claim 13 (Previously Presented): The method according to Claim 5, wherein the pH is at least 5.

Claims 14-16 (Cancelled).

Claim 17 (Previously Presented): The ultrathin film according to Claim 1, which is in contact with a substrate selected from the group consisting of quartz glass plate, Si wafer, mica plate, graphite plate and alumina plate.

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Claim 18 (Previously Presented): The ultrathin film according to Claim 1, wherein the layered titanium oxide is selected from the group consisting of lepidocrocite titanate, trititanate, tetratitanate and pentatitanate.

Claim 19 (Previously Presented): The ultrathin film according to Claim 1, wherein the layered titanium oxide is selected from the group consisting of $Cs_xTi_{2-x/4}O_4$ wherein $0.5 \le x \le 1$; $A_xTi_{2-x/3}Li_{x/3}O_4$ wherein A = K, Rb or Cs and $0.5 \le x \le 1$; $Na_2Ti_3O_7$; $K_2Ti_4O_9$ and $Cs_2Ti_5O_{11}$.

Claim 20 (Previously Presented): The ultrathin film according to Claim 1, wherein the polymer layers comprise one or more polymers selected from the group consisting of polydimethyldiallyl ammonium chloride, polyethyleneimine, and polyallylamine hydrochloride.

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BASIS FOR THE AMENDMENT

The claims have been amended to make it clear that <u>each</u> of the layers has a film thickness as defined, consistent with the disclosure at page 3, lines 1-4 and original Claim 5.